





Michigan Bovine Tuberculosis Eradication Program

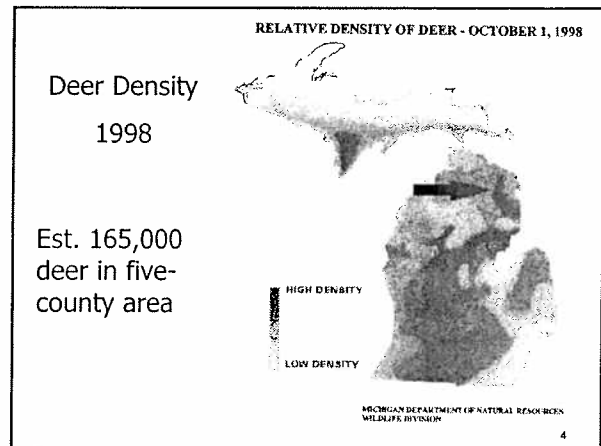
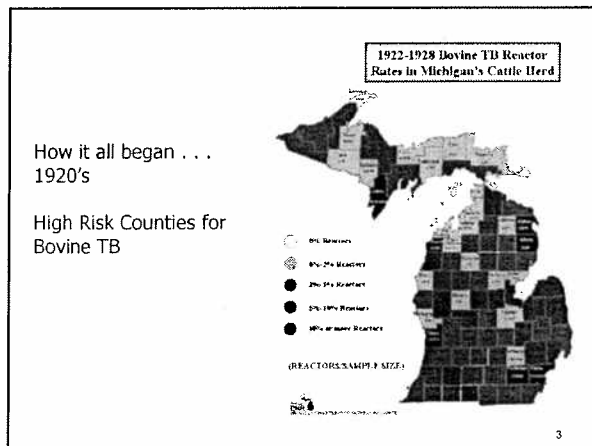


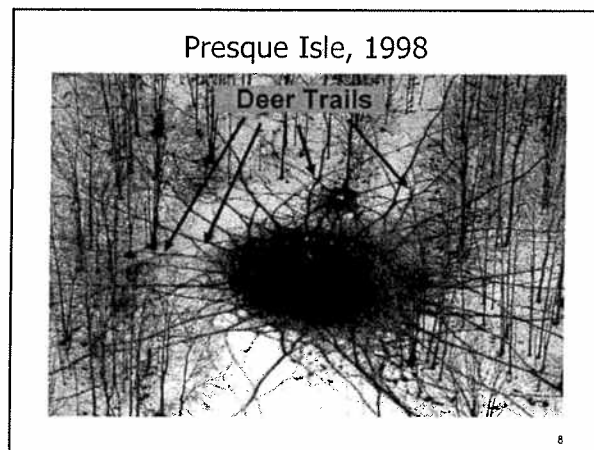
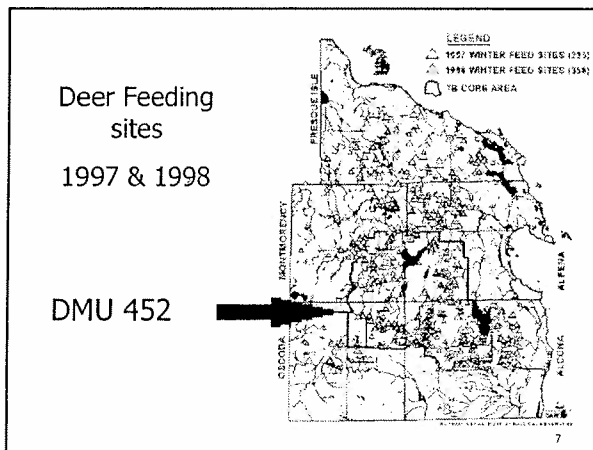
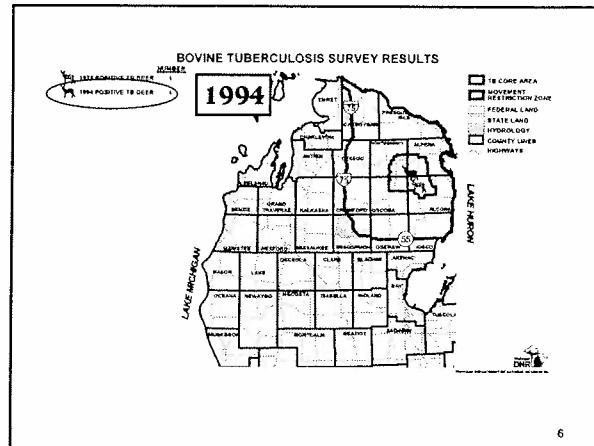
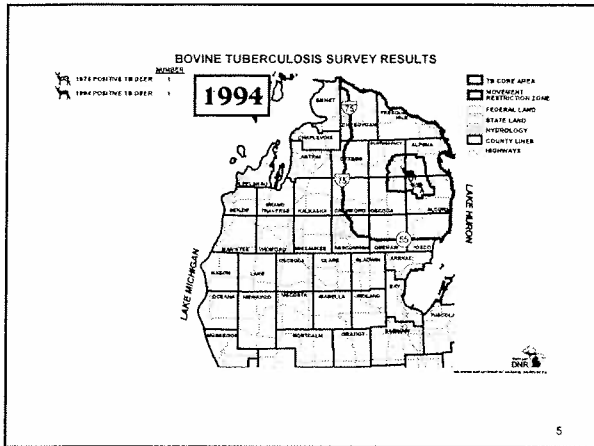
House Agriculture Committee
Dr. Steven Halstead, State Veterinarian
March 7, 2007

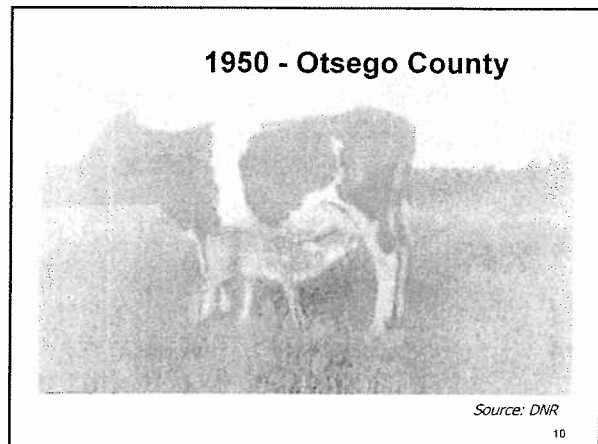
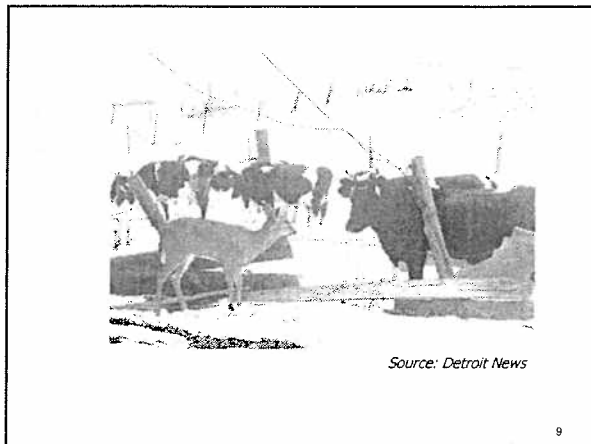
Mycobacterium bovis

- Bovine TB can be transmitted from livestock to deer, other animals, and humans; i.e. zoonotic
- No other organism has as great a host range as bovine TB
- Bacteria that devastates respiratory system of animals and humans







Why Eradicate Bovine TB?

Public Health Risk

- Transmitted through milk, air, open wounds

Viability of Agriculture Industry

- 1 million+ cattle (Source: USDA)
- 14,000 herds (Source: MDA)
- \$2.4 billion = Value of livestock/dairy production (Source: USDA)

Economic Loss to State

- \$156 million = Projected loss for agriculture industry over 10 years (Source: MSU)
- \$25 million = Estimated annual loss for sport hunting industry in Northeast Lower Michigan (Source: MSU)

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Bovine TB Eradication Project

Multi-agency collaboration to identify and establish bovine TB disease boundaries (zones) through:

- Statewide testing of all known cattle, bison, goats, privately owned deer and elk
- Statewide testing of hunter-harvested free-ranging deer
- Program policy based upon scientific research
- Education and outreach

Lungs of a two-year-old Michigan heifer discovered at slaughter. Source: USDA Food Safety and Inspection Service, 2001

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Program Objectives



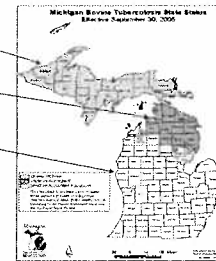
- Identify Infection
- Prevent Spread
- Eradicate Disease

The program works! Michigan strain of TB has not been found in any other zone, any other state, or internationally.

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Current MDA TB Zones

- TB Free Zone
- TB Modified Accredited Zone
- Modified Accredited *Advanced* TB Zone (last stage before becoming TB free)



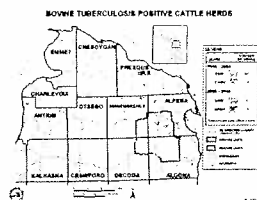
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MDA Modified Accredited Zone

Annual cattle whole-herd and movement testing:

- 41 positive herds (80 out of 4,462 animals)
- Only 2 herds found by slaughter surveillance
- 39 found by live animal surveillance testing
- 2 deer herds found

Electronic animal identification
Movement permitting and tracking
Risk mitigation strategies

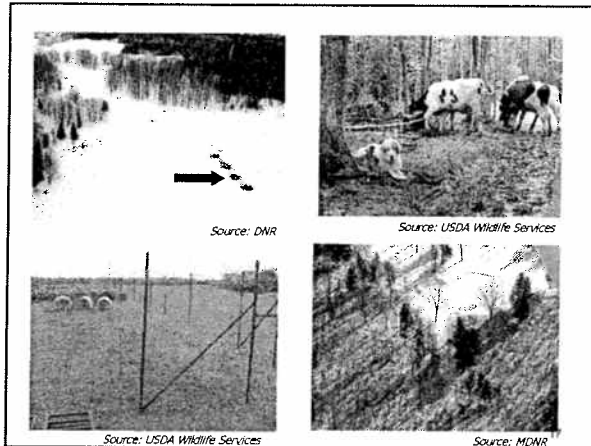


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Additional On-Farm Measures

- On farm risk assessments
- Restrictive repopulation requirements
- USDA accredited TB free herds (more restrictions)
- USDA wildlife services:
 - Fencing
 - Dogs
 - Deer removal

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Modified Accredited *Advanced* Zone

No evidence of bovine TB, therefore MDA will seek free movement for cattle in this zone.

- By 2004, all cattle in this zone had been tested at least once
- Now, 725 herds annually undergo random surveillance testing
- In 2007, MDA will apply to USDA for TB free status in this zone
- TB free status will eliminate costs of testing for the producer



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Electronic Identification

The purchase of more than 906,000 electronic tags, to date, will help to:

- Receive higher status for TB zones;
- Provide faster/more accurate tracking in event of foodborne illness outbreak; and for disease control and eradication programs;
- Reduce number of animals impacted by quarantines;
- Increase testing efficiency while reducing costs; and
- Increase market access.



Steer running through electronic identification reader.

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Current Program Priorities

Critical to earning TB free status in Modified Accredited Advanced Zone:

- Zoning order effective March 1, 2007
- Disease surveillance testing
- Movement certification
- Compliance program
- Electronic Identification



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Summing Up . . .

- All sexually intact cattle 6 months of age or older leaving the Modified Accredited Advanced Zone must have a negative TB test;
- All Michigan cattle exhibited, or for sale, in every zone must have electronic eartags when leaving a farm; and
- Cattle farmers moving animals between zones must obtain movement certification from MDA.
- To order electronic eartags, obtain movement certification or receive more information: 866-870-5136



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Michigan Model

"The close cooperation between the MDA, MDNR, MDCH and MSU stands as a model to be emulated by any other state which may need to deal with a similar problem."



USDA VS Bovine TB Program Review 2000

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